- (CURRENTLY AMENDED) An antisense oligonucleotide selected from the group consisting of the sequence 5' – TTG CAT AAA CCC AAG GAG – 3' (SEQ ID NO: 1) and modifications thereof, and a fragment thereof having at least 8 nucleotides of the sequence 5' – TTG CAT AAA CCC AAG GAG – 3' (SEQ ID NO: 1) and modifications thereof.
- 2. (PREVIOUSLY PRESENTED) The antisense-oligonucleotide according to claim 1 wherein the modification comprises a modified sugar moiety, a modified base, a modified internucleotide linkage, coupling the oligonucleotide to an enhancer of uptake and/or inhibitory activity, and combinations thereof.
- 3. (PREVIOUSLY PRESENTED) The antisense-oligonucleotide according to claim 2 wherein the antisense-oligonucleotide is a phosphorothioate oligodeoxynucleotide.
- 4. (CURRENTLY AMENDED) The <u>antisense-oligonucleotide</u> antisense-oligonucleotides according to claim 1 with the structure:

wherein

B = the bases A, C, G or T in oligodeoxy-ribonucleotides or the bases A, C, G or U in oligoribonucleotides:

 $R^1 = OM^*(M^1 = Na^* \text{ or } H^1)$, $SM^*(M^1 = Na^* \text{ or } H^1)$, CH_3 , C_2H_5 , OCH_3 , or C_2H_5 , R^2 and/or R^3 are covalently coupled cholesterol, poly(L)lysine, transferrin or H; $R^4 = H$, F, CH_3 , C_2H_5 , OH, OCH_3 , or OC_2H_5 ;

wherein the structure is a representation of a longer nucleotide chain.

 (CURRENTLY AMENDED) The <u>antisense oligonucleotide</u> antisense-oligonucleotides according to claim 1 with the formula

wherein

B = the bases A, C, G or T in oligodeoxy-ribonucleotides, or the bases A, C, G or U in oligo-ribonucleotides; p = internucleotide phosphate:

 ${\rm (B-p-)}_n = an\ oligodeoxy-ribonucleotide\ or\ oligo-ribonucleotide\ stretch\ wherein$

n=1-12;

and wherein \mathbb{R}^1 , encompassing \mathbb{R}^{1a} or \mathbb{R}^{1b} , is varied at the internucleotide phosphates within one oliconucleotide wherein

R^{1a} = S'M⁺, wherein all M⁺ is Na⁺ or H⁺ and R^{1b} = O'M⁺, wherein all M⁺ is Na⁺ or H⁺; or

R^{1a} = CH₃ and R^{1b} = O'M*, wherein all M* is Na* or H*; or

 $R^{1a} = S^{T}M^{+}$, wherein all M^{+} is Na^{+} or H^{+} and $R^{1b} = CH_3$; or

 $R^{1a} = CH_3$ and $R^{1b} = S^*M^*$, wherein all M^* is Na^* or H^* .

6. (CURRENTLY AMENDED) The <u>antisense-oligonucleotide</u> antisense-oligonucleotides according to daim 1 with the formula

wherein

B = one of the bases A, C, G or T in oligodeoxy-ribonucleotides or one of the bases A, C, G or U in oligoribonucleotides depending on a gene sequence;

p = internucleotide phosphate;

 $(B-p-B-p)_n = an$ oligodeoxy-ribonucleotide or oligo-ribonucleotide stretch wherein n = 2 - 8; and wherein R^1 is alternated at the internucleotide phosphates within one oligonucleotide wherein $R^{1a} = SM^*$, wherein all M^* is Na^* or H^* and $R^{1b} = OM^*$, wherein all M^* is Na^* or H^* ; or $R^{1a} = CH_3$ and $R^{1b} = OM^*$, wherein all M^* is Na^* or H^* , or $R^{1a} = SM^*$, wherein all M^* is Na^* or H^* and $R^{1b} = CH_3$.

7. (CURRENTLY AMENDED) A method Use of the antisense oligonucleotides according to claim 1 for comprising providing the antisense oligonucleotide of claim 1, whereby the antisense oligonucleotide results in at least one of the inhibition of expression and/or functional activity of melanoma inhibitory activity (MIA), reducing invasion and/or metastasis, or stimulating immune cells and/or the immune system.

- 8. (PREVIOUSLY PRESENTED) A pharmaceutical composition comprising an antisenseoligonucleotide according to claim 1.
- 9. (PREVIOUSLY PRESENTED) The pharmaceutical composition according to claim 8 wherein the antisense-oligonucleotide is integrated into a DNA delivery system comprising viral and/or non-viral vectors together with lipid acids or derivatives thereof selected from the group consisting of anionic lipids, cationic lipids, non-cationic lipids, and mixtures thereof.
- 10. (PREVIOUSLY PRESENTED) The pharmaceutical composition according to claim 8 further comprising an immunostimulatory agent.
- 11. (PREVIOUSLY PRESENTED) The pharmaceutical composition according to claim 10 wherein the immunostimulatory agent is selected from the group consisting of cytokines, inhibitors of expression and/or function of interleukin-10, inhibitors of expression and/or function of transforming growth factor beta (TGF-g), inhibitors of expression and/or function of Prostaglandin B2, inhibitors of expression and/or function of receptors for Prostaglandin E2, inhibitors of VEGF, and combinations thereof.
- 12. (CURRENTLY AMENDED) <u>A method comprising providing The use of the pharmaceutical composition according to claim 8 in a method for the prevention and/or the treatment of at least one of neoplasms, infections, or immunosuppressive disorders.</u>
- 13. (CURRENTLY AMENDED) A method comprising providing The use of the pharmaceutical composition according to claim 8 in a method for the prevention and/or the treatment of at least one disorder, neoplasm, infection, or immunosuppressive disorder wherein abnormal expression of MIA plays a role in the disorder, neoplasm, infection, or immunosuppressive disorder.
- 14. (CURRENTLY AMENDED) <u>A method comprising providing</u> The use-of the pharmaceutical composition according to claim 8 in-a-method for the antifor-the treatment of neoplasms and/or disorders selected from the group consisting of melanoma, gastrointestinal carcinoma, breast cancer, pancreatic cancer, ovarian carcinoma, chondrosarcoma, spinal diseases, cervical myelopathy, lumbar canal stenosis, lumbar disc hemiation, rheumatoid arthritis, osteoarthritis, HA-27-assocoiated oligoarthritis, psoriatic arthritis, rheumatic arthritis, cartilage damage, joint destruction, and combinations thereof.
- 15. (PREVIOUSLY PRESENTED) A diagnostic composition comprising an antisense-oligonucleotide according to either claim 1 or claim 2.
- 16. (CURRENTLY AMENDED) The <u>antisense oligonucleotide</u> composition of claim 5 wherein (B-p-)_n = an oligodeoxy-ribonucleotide or oligo-ribonucleotide stretch wherein n = 1 11.

17. (CURRENTLY AMENDED) The <u>antisense oligonucleotide</u> composition of claim 6 wherein (B-p-B-p)_h = an oligodeoxy-ribonucleotide or oligo-ribonucleotide stretch wherein n = 3-7.